ABSTRACT/6

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REMIUMS

OFFERED BY THE

SOCIETY

ISTITUTED AT LONDON FOR THE ENCOURAGEMENT OF ARTS,

MANUFACTURES, AND

COMMERCE.



ONDON: PRINTED BY ORDER OF THE SOCIETY, BY THOMAS WILKINS,
ALDERMANBURY.

M, DCCLXXXVI.

SOCIETY'S OFFICE, ADELPHI, May 24, 1786.

Ordered that the several Candidates and Claimants to whom the Society shall adjudge Premiums or Bounties, do at tend at the Society's Office in the Adephi, on the tast Tuesda in May 1787, at 12 o'Clock at noon to receive the same that day being appointed by the Society for the distribution of their rewords; before which time no Premium or Bounty will be delivered.

ADELPHI, June 18, 1786.

The fourth Volume of the Transactions of this Society being now published, may be bad at their House in the Adelphi, of the principal Booksellors in England and Wales; in white Book will be found the Particulars of each Premium, insert in the following Abstract, and the Methods to be pursued those who intend to become Candidates; together with material communicated to the Society, in the several Branch of Arts, Manusactures, and Commerce, which are the in mediate objects of their Attention and Encouragement.

To the PUBLIC.

HE CHIEF OBJECTS of the Attention of the SOCIETY, in the Application of their RE-WARDS, are all fuch useful Inventions, Discoveries, or Improvements, (though not mentioned in the Book of Premiums) as appear to have a Tendency to promote uleful Arts, Manufactures, and Commerce, in this Kingdom; and in Pursuance of this Plan, the Society have already been enabled, by the voluntary Subscriptions of its Members, and by Benefactions of the Nobility and Gentry, to expend for such useful Purposes, a Sum amounting to up-

wards of Thirty Thousand Pounds.

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Whoever attentively confiders the Benefits which have arisen to the Publick fince the Institution of this Society, by the Introduction of new Manufactures, and the Improvements of those formerly established, will readily allow, no Money was ever more usefully expended, nor has any Nation received more real Advantage, from any Public Body whatever, than has been derived to this Country, from the Rewards bestowed by this Society; and this Obfervation will be confirmed by inspecting a general Account of the Effects of the Rewards bestowed by the Society, annexed to a Work in Folio, printed in 1778, entitled, "A Register of the Premiums and " Bounties given by the Society, instituted at Lon-" don, for the Encouragement of Arts, Manufac-" tures, and Commerce, from the Original Insti-" tution in 1754, to 1776 inclusive;" waich Work is fent to every Member on his Election, and may A 2

be seen by any Person, applying to the Secretary, or other Officers of the Society, at their House in the

Adelphi.

In order further to promote the laudable Views of this Institution, and to enable the Society to profecute to greater Effect, the Work fo successfully begun, it may not be improper to inform the Publick, by what Mode, and on what Terms, Members are elected .- Peers of the Realm or Lords of Parliament are, on their being proposed at any Meetings of the Society, immediately ballotted for; and the Name, with the Addition, and Place of Abode of every other Person proposing to become a Member, is to be delivered to the Secretary, who is to read the fame, and properly infert the Name in a List of Candidates, to be hung up in the Society's Room, until the next Meeting, at which fuch Persons shall be ballotted for; and if two-thirds of the Members then voting, thall ballot in his favour, he shall be deemed a perpetual Member, upon Payment of Twenty Guineas at one Payment, or a Subscribing Member, upon Payment of any Sum not less than Two Guineas annually: every Member is equally intitled to vote, and be concerned in all the Transactions of the Society.

The Meetings of the Society are held every Wednesday, at Six o'Cock in the Evening, from the fourth Wednesday in October to the first Wednesday in June. And the several Committees to whose Consideration the various Objects of the Society's Attention are referred, meet on the other Evenings in every Week

during the Seffion.

Premiums for Planting and Husbandry.

CLASS.

1. ACORNS. For setting ten acres, between October, 1785, and January 1785; the gold medal.

2. For five acres, the filver medal.

Certificates to be produced on the first Tuesday in November, 1785.

5. Raifing Oaks Not fewer than five thousand, from plants, or acorns, in woods, that have been long under timber, the gold medal.

6. For three thousand; the filver medal.

Certificates to be produced on the first Tuesday in January, 1788.

11. Spanish Chesnuts. For setting six acres, before May, 1786, the gold menal.

12. For four acres; the filver medal.

13 For two acres; the filver medal.

Certificates to be delivered on the first Tuesday in November, 1786.

17. English Elm, For eight thousand, planted between June, 1785, and June 1786, the gold medal.

18. For five thousand; the filver medal.
19. For four thousand; the filver medal.

Certificates to be delivered on the first Tuesday in November, 1786.

fand; to be between two and four years old, the gold medal,

24. For three thousand; the filver medal.

Certificates to be delivered on the last Tuesday in November, 1786.

27. Huntingdon Willow. For three acres planted in the year 1786, at least one thousand cuttings on each acre, the gold medal.

Certificates to be produced on the last Tuesday in December, 1786.

29. Alder. For fix acres, planted in the year 1785, at least one thousand on each acre, the gold medal.

Certificates to be produced on the last Tuesday in December, 1786.

31. Upland or Red Willow. For not less than three acres, planted before the end of April, 1786, twelve hundred on each acre; the gold medal.

Certificates to be produced on the last Tuesday in April, 1787.

33. Ash. For not less than fix acres, planted in the year 178, the plants to be two years old, and the number on each acre, at least twelve hundred: the gold medal.

34. For not less than four acres; the filver medal.

Certificates to be delivered on the fecond Tuelday in December, 1787.

37. Mixed Timber Trees For enclosing, planting, or fowing, ten acres with Forest Trees, for Timber, between October, 1784, and May, 1786; the gold medal.

Certificates to be produced on the first Tuesday in November, 1788.

40. Mulberry Cuttings. For raising not less than three hundre Mulberry trees from Cuttings; in the Year 1785 the gold medal.

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Certificates to be produced on the first Tuesday in November, 1788.

41. Mulberry Cuttings. For not less than one acre of Mulberry Cuttings, planted in the year 178; for the purpose of feeding Silk Worms; the gold medal.

Certificates that the plants are only three feet asunder to be produced

on the first Tuesday in December, 1788.

The Candidates for planting all kinds of Trees, are to certify that the respective plantations are properly senced and secured, and particularly to state the

condition the plants were in at the time of figning fuch certificates.

Any information which the Candidates for the foregoing premiums may chuse to communicate, relative to the methods made use of in forming the plantations, or promoting the growth of the several trees, or any other observations that may have occurred on the subject, will be thankfully received.

42. Trees for use when exposed to the weather. For the best account, to determine which of the following trees is of the greatest utility for

timber, when exposed to the weather, viz.

Larch, Black Poplar, Ash, Spanish Chesnut, Willow, Alder, Lom-bardy Poplar; the gold me dal

To be produced on the second Tuesday in December, 1:86.

44. Preserving Acorns For the most effectual method of preserving, Acons, when sown, from being injured by mice; the gold medal.

The accounts to be produced on the last Tuesday in November, 1786. 45. For preserving Chesnuts, and Seeds of other Forest Trees, the silver medal

The accounts to be produced on the last Tuesday in November,

1786.

46. Planting boggy or moraffy Soils. For the best experiments to ascertain the advantages of planting boggy or morrassy soils, the gold medal.

Certificates to be produced on the first Tuesday in January, 1792.

51. Roots of Corn. For ascertaining the succession of the different Roots of Corn, particularly those which shoot out near the time the plants go into ear; the gold medal.

To be produced on the first Tuesday in January, 1787.

53. Comparative Culture of Wheat. For the best experiments on the culture of Wheat, by sowing it in the common broad-cast way, by drilling it, or by dibbling; the gold medal

The account to be produced on the first Tuesday in February, 1787.
55. Beans and Wheat. For planting or drilling between December 178; and March 1786, ten acres, with beans, and for sowing the same land with Wheat in the year 1786, ten guineas.

Certificates to be produced on the first Tuesday in November, 1787.

5 Turneps. For experiments made on fix acres, to determine the comparative advantages of the drill, or broad-cast method in the cultivation of Turneps; ten guineas.

To be delivered on the third Tuesday in April, 1787.

60. Green Vegetable Food. For the best account of vegetable Food, that will most increase the milk in mares, cows, and ewes, in March and April; the gold medal.

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Certificates to be produced on the second Tuesday in November, 1786.
62. Turnep-rooted Cabbage For raising, in the year 1784, not less than ten acres, and for an account of the effects on cattle or sheep, sed with it; the gold medal.

63. For not less than five acres; the filver medal.

Certificates to be produced on the last Tuesday in October 1785.

64. Turnep-rooted Gabbage. For raising in the year 1-85, the greatest quantity, per acre, of Turnep-rooted Cabbage, ten guineas.

6;. For not less than five acres, five guineas.

Crtificates to be produced on the last Tuesday in October, 1787.

66 Cultivating Roots and Herbage for feeding sheep and black cattle. For experiments made on two acres of land, between Michaelmas, 1786, and May 1787, to afcertain which of the following plants can be secured for winter fodder, to the greatest advantage, viz.

Turnep-rooted Cabbage, Carlots, Turnep Cabbage, Parlneps, Tur-

neps, Potatoes.

The accounts to be produced on the first Tuesday in November, 1787;

the gold medal.

68: Managing Bees. For the most satisfactory account of managing Bees to the greatest advantage in this climate; the gold medal.

To be produced on the tecond Tuesday in January, 1787

69. Cultivating the true Rhubarb. For railing in the year 1786, not less than three hundred plants of the true Rhubarb; the gold medal.

70. For two hundred plants; the filver medal

Certificates to be produced on the second Tuesday in February, 1787.

73. Rhubarb. For Rhubarb of British growth, twenty pounds weight, the gold medal.

Certificates and fix pounds weight to be produced on the first Tuesday

in November, 1786.

74. For ten pounds weight, the filver medal.

77. Afcertaining the component parts of arable Land. For the most fatisfactory experiment, to ascertain the due proportion of the several component parts of Arable Land, by an accurate annalysis of it; the gold medal.

The accounts to be produced on the last Tuesday in November, 1788.

81. Improving Land lying waste. For a method of improving soils, lying watte or uncultivated; the gold medal.

The accounts to be produced on the second Tuesday in December,

1786.

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82. For the next in merit, the filver medal.

87. Manures. For the best account, on what soil the application of Marle, Chalk, Lime, or Clay, as manures, be most beneficial; the gold medal.

The account to be delivered on the first Tuesday in January, 1787.

93. Manures. For the best set of experiments, to alcertain the comparative advantage of Soot, Coal-Ashes, Wood-Ashes, Lime, or Night Soil; the gold medal.

The account to be produced on the first Tuesday in Decmber, 1787.

92. Course

92. Courfe of Crops on frong Land. For the best account, to ascertain the advantages of the following course of Crops, First, Beans drilled, or planted and hoed; secondly Wheat; the gold medal.

Certificates to be produced on the last Tuesday in March, 1788.

93. Improving waste Moors. For the improvement of not less than one hundred acres of wafte Moor Land, the gold medal.

Certificates to be produced on the first Tuesday in February, 1787.

96. Gaining Land from the Sea. For an account of the best method of gaining from the Sea, not less than twenty acres of Land, the gold medal.

Certificates to be produced on the first Tuesday in October, 1786.

Horse Beans only, to be produced on the first Tuesday in January, 178; the silver medal, or ten guineas.

101. Machine to reap, or mow Corn For a Machine to reap or mow Grain by which it may be done cheaper, than by any method now

practised, ten guineas.

Legister Text Tourist Course

The Machine, with Certificates to be produced on the second Tues-

day in December, 1786.

102. Curing Scab in Sheep. For discovering a method of curing the Scab in Sheep, the filver medal or ten guineas.

Certificates to be delivered on the second Tuesday in January, 1787. 103 Deftrying the Grub of the Cock Chafer. For discovering a method of destroying he Grub of the Cockchafer, the gold medal.

The accounts to be delivered on the first Tuesday in January, 1787.

Premiums for discoveries and Improvements in Chemistry, Dying, and Mineralogy.

104 Kelb. For four tons of Kelp, containing much more Alkaline, Salt than any now made for fale; twenty pounds.

One hundred weight, to be produced on the first Tuesday in January.

1787.

105! Barilla. For half a ton of merchantable Barilla, made from Spanish Kali, raised in Great Britain: the gold medal.

Twenty eight pounds, with a Certificate, to be produced on the

first Tuesday in January, 1787.

106. Differtation on Alkali. For the best differtation on vegetable and mineral Alkalies; the gold medal, or fifty pounds.

To be produced on the first Tuesday in March, 1787.

107. Preserving Seeds of Vegetables. For a method of preserving the feeds of plants fit for vegetation, to be communicated on the first Tuesday in December, 1786; the gold medal.

Destroying Smoke. For an account of a method of destroying the smoke of fires belonging to large works, to be produced on the

first Tuesday in January, 1787; the gold medal.
109 Substitute for or preparation of Yeast. For discovering a Substitute for, or Preparation of Yeast, that may be preserved for use, the gold medal, or twenty pounds.

Specimens to be produced on the last Tuesday in November, 1786.

110. Increasing Steam. For a method of increasing the quantity, or The force of Steam, in Steam Engines, with less fuel than is now employed; the gold medal.

To be communicated on the first Tuesday in January 1787.

112. Method of Comparing Sweets. For discovering a practical method of afcertaining the degrees of sweetness in Saccharine Substances; the gold medal.

To be produced on the first Tuesday in January, 1787.

113. Preventing the Dry Rot in Timber. For discovering the cause of the Dry Rot in Timber, and disclosing a method of prevention; the

The accounts to be produced on the second Tuesday in December.

178%

115. Bronze for Copper Medals. For discovering a method of bronzing Copper Medals, equal to the French; the gold medal. To be produced on the second Tuesday in December, 1786.

Premiums for promoting the Polite Arts.

or grandlons of Peers, or Peereffes, of Great-Britain or Ireland; to be produced on the first Tuesday in March, 1787; the gold medal.

117. For the second in merit; the filver medal.

grand-daughters of Peers or Peeresses, of Great-Britain or Ireland.

120. Honorary Premiums for Drawings. For the best drawing of any

kind, by young gentlemen under the age of twenty-one.

To be produced on the first Tuesday in March, 1787; the gold medal.

121. For the next in merit; the filver medal.

122, 123 The same premiums will be given for drawings by

young ladies:

- N. B. Persons professing any branch of the Polite Arts, or the sons or daughters of such persons, will not be admitted candidates in these classes.
- 124. Sculpture. For the model of the Bust of His Royal Highness the Prince of Wales, as large as the life; a silver medallion, in conformity to the will of John Stock, of Hampstead, Esq.

To be produced on the third Tuesday in November, 1786.

plaster of human figures, by persons under the age of sixteen, to be produced on the last Tuesday in November, 1786; the greater silver pallet.

126. For the next in merit; the leffer filver pallet.

127. Drawings after Pictures. For a drawing after a Picture of human figures, by persons under the age of fixteen; to be produced on the last Tuesday in November, 1786; the greater filver pallet.

128. For the next in merit; the leffer filver pallet.

129. Drawings of Machines. For the best drawing by persons under the age of twenty-one years, of a Crane by Mr. Bunce, in the Society's Repository; the greater silver pallet; to be produced on the third Tuesday in November, 1786.

130. Drawings of Beafts. For the best drawing of three or more beafts after nature, by persons under the age of eighteen years: to be produced on the third Tuesday in November, 1786; the greater silver

pallet.

131. For the next in merit; the lesser silver pallet.

132. Drawings of Birds. For the best drawing after nature of three different birds, by persons under the age of eighteen years: to be produced on the third Tuesday in November 1785; the greater silver pallet.

133. For the next in merit; the leffer filver pallet.

134. Drawings of Fruit, Flowers, or Plants. For the best drawing

after nature, by persons under the age of fixteen, to be produced on the third Tuesday in November 1786; the greater filver pallet.

135. For the next in merit : the leffer filver pallet.

by persons under twenty-one years of age, to be produced on the third Tuesday in November, 1786; the greater filver pallet.

137. For the mext in merit; the leffer filver pallet.

ing, of five or more human figures; to be produced on the third Tuelday in November, 1786; the gold pallet

139. For the next in merit; the greater filver pallet.

To Masters of Academies or Schools.

140. To the master of any Academy, or school for boys, not more than thirty miles from London, who shall teach at least four scholars to write, and to speak Latin correctly and sluently; the gold medal.

Also the gold medal for teaching each of the following languages,

viz. the German, the Spanish, and the Italian.

Notice of the claim to be fent to the Society, on the second Tuesday

in November, 1786.

To the Scholar who is the greatest proficient in each of the said languages, the silver medal.

steen, to be probates Premiums for encouraging and improving Manufactures.

147. Silk For five pounds of Silk, produced by one person in England, in the year 1786; the gold medal.

One pound, with Certificates, to be delivered to the Society on the

fire Tuesday in January, 1787.

148. For two pounds; the filver medal.

149. Machine for carding Silk. For a machine for carding waste Silk; to be produced on the first Tuesday in November, 1786; the gold medal, or twenty pounds.

150. Weaving Fishing Nets. For the best specimen of netting, for Fishing Nets, twenty yards long, and fix feet deep, woven in a machine; to be produced on the second Tuesday in January 1787; twenty guineas.

Paper for Copper Plates. For establishing in England or Wales, 141. a manufacture of paper, equal to the paper imported from France, proper for impressions of engraved copper-plates; the gold medal.

One ream of the dimensions of the French super royal, and one ream of the dimensions of Colombier; to be produced on the first I usiday in

November, 1786.

152. Cloth from Hop-stalks, or Binds. For not less than twenty-five yards, made in England, the gold medal; or twenty pounds; to be produced on the second Tuesday in December, 1787.

154. Paper from raw vegetables. For ten reams of useful Paper from vegetable substances that have not been previously made into cloth;

ten guineas.

One ream and certificates to be produced on the first Tuesday in

November, 1787.

Premiums

Premiums for Inventions in Methanicks.

15: Tranfit Instrument. For a cheap and portable Tranfit Instrument, for the purposes of finding the latitudes and longitudes of places; the gold medal, or twenty guineas; to be produced on the last Tuesday in January, 1787

156. Gun Harpoon. For every Whale taken by the Gun Harpoon;

to the person who first strikes such fish therewith: two guineas.

Certificates of the taking such Whales in the year 1786; to be delivered on the last Tuesday in December, 1786.

Gun for throwing Harpoons. To the person who shall produce the best gun for throwing Harpoons; the filver medal, or ten guineas.

To be delivered on the first Tuesday in December, 1786.

158. Harpoon to be thrown by a Gun. To the person who shall produce the best Harpoon to be thrown by a gun, the silver medal or ten guineas.

To be delivered on the first Tuesday in December, 1786.

159 Cross-bow for throwing Harpoons. To the person who shall produce the best cross-bow for throwing Harpoons; the filver medal, or ten guineas.

To be delivered on the first Tuesday in December, 1786.

160. Cross bow Harpoon. For every Whale taken by a Harpoon sheet from a crofs-bow, to the person who first strikes such fish therewith; two guineas.

Certificates of the taking such Whales in the year 1786, to be deli-

vered on the last Tuesday in December, 1786.

Machine for transporting Timber. For a model of the best Machine for transporting timber, on soft or clayey roads: to be sent in on the last Tuesday in November, 1786; twenty guineas.

Improvement of the Hand Ventilator. For a portable Ventilator. to be worked by hand, better than any now in use; the gold medal, or

twenty guineas.

To be produced on the last Tuesday in February, 1787.

164. Cranes for Wharfs. For a model of a Crane for Wharfs, Superior to any in ule; the gold medal, or twenty guineas.

To be produced on the first Tuesday in February, 1787.

Horizontal Windmill. To the person who shall produce a model of a Horizontal Windmill on a Scale not less than one inch to a foot, superior to any in use; the gold medal, or twenty guineas.

To be produced on the first Tuesday in February, 1787.

Handmill. For the best constructed Handmill for general purposes; the filver medal, or ten guineas.

To be produced on the last Tuesday in December, 1786.

167. Machine for raifing Ore. To the person who shall invent a machine and produce a model for raising Ore, &c. from mines, at a less. expence than any in use; the gold medal or twenty guineas.

To be produced on the second Tuesday in February, 1787.

Simices

168. Sluices for feouring Channels. To the person who shall invent a Sluice to be easily disposed so as to scour a Channel increasing in width equal to an angle of 45°.

To be produced on the second Tuesday in February, 1787.

Cleaning Reservoirs. To the person who shall produce a model or drawing shewing a method superior to any in use for cleansing Refervoirs, &c. by the water contained therein, twenty guineas.

To be produced on the second Tuesday in February, 1787.

170 Machine for clearing Rivers. For the best model of a Machine, Superior to any now in use, for clearing navigable Rivers from Weeds, at the least expence; ten guineas.

To be produced on the first Tuesday in February, 1787.

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sed to crall a shake but

171. Securing Buildings from Fire. For an effectual method of pre-

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Strate Support Service Service Services

To be produced on the fecond Tuesday in February, 1787.

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Premiums offered for the Advantage of the British Colonies.

his Majesty's dominions in the West Indies, the gold medal, or one hundred pounds.

Certificates to be produced on the first Tuesday in January, 1787.

174, 175. Bread Fruit Tree. For the greatest number of plants of one or both species of the Bread Fruit Tree, in a growing state, not less than three of either species; the gold medal.

To be produced before the fifteenth of August, 1787.

178. Oil from Cotton Seed. For one ton of Oil and five hundred weight of Cake from the Seed of Cotton; the gold medal.

Certificates to be produced, with two gallons of Oil and two dozen,

of cakes, on the last Tuesday in November, 1786.

184. Spirit from the Pulp of the Coffee Berry, for distilling thirty gallons of spirit, from the Pulp of the Coffee Berry, and producing one gallon of the spirit, the gold medal.

185. For fifteen gallons; the filver medal.

Certificates to be delivered on the first Tuesday in January, 1787.

187. Senna. For two hundred weight, imported in 1786, the growth of any of the British islands in the West Indies, the gold medal.

Certificates to be produced on the first Tuesday in February, 1787.

** It is required, that the matters for which Premiums are offered, be delivered in without names, or any intimation to whom they belong, that each particular thing be marked in what manner each claimant thinks fit, such claimant sending with it a paper sealed up, having on the outside a corresponding mark, and on the inside the claimant's name and address.

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THE STATE OF THE PARTY Prominent of first for the Act integral Plant with Colombers or 173 & Andrey . For Eve profiles weight of Kutmage, the growing of La Claichele and one an inc Weight hier, the gold profile, ordene Annuag berbrod Transactive species of the first property and the service of transfer design to the state of the state of the state of the state of tone of their species of post from Besid's the assessment have not

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of every the the last median in Newconten apple. loss of heart, from the rule of the Can a Berry, and producing one salks of the loint, the cold-medal. The salks

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Confirming to be on verse on the self I release in January, to 375. 187. Sent. for test hundred well bit imported in 1785, the growin of any of the could illands in the 12ch lodies; the gold medal. Crackage to be for cell on the hear Tuellay in February 1787.

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